Preface

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Preface

This volume contains selected papers from the 9th International Workshop On User Interfaces for Theorem Provers (UITP10). UITP10 was held as a one-day satellite workshop of the Federated Logic Conference (FLOC'10) in Edinburgh, UK, on the 15th July 2010. For the first time, the workshop was affiliated to two major conferences:

- The International Conference on Interactive Theorem Proving (ITP'10), a combination of the 23rd International Conference on Theorem Proving in Higher Order Logics and the 9th ACL2 Workshop;
- The 5th International Joint Conference on Automated Reasoning (IJCAR'10).

The UITP workshop series brings together researchers interested in de- signing, developing and evaluating interfaces for interactive proof systems, such as theorem provers, formal methods tools, and other tools manipulating and presenting mathematical formulas.

Previous workshops have been held in Glasgow (1995), York (1996), Sophia-Antipolis (1997), Eindhoven (1998), Rome (2003), Edinburgh (2005), Seattle (2006) and Montreal (2008). In 2003 UITP was colocated with TPHOLs03, in 2005 it was organized as an ETAPS05 satellite workshop, in 2006 as a FLOC06 satellite workshop and in 2008 as a TPHOLS'08 satellite workshop.

The UITP10 workshop has solicited contributions from researchers interested in designing, developing and evaluating interfaces for interactive proof systems, such as theorem provers, formal method tools, and other tools manipulating and presenting mathematical formulas.

Participation and contributions from the theorem proving, formal methods and tools, and HCI communities were welcomed, both to report on experience with existing systems, and to discuss new directions. Topics covered included, but were not limited to:

- Application-specific interaction mechanisms or designs for prover interfaces
- Experiments and evaluation of prover interfaces
- Languages and tools for authoring, exchanging and presenting proof

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- Implementation techniques (e.g. web services, custom middleware, DSLs)
- Integration of interfaces and tools to explore and construct proof
- Representation and manipulation of mathematical knowledge or objects
- Visualization of mathematical objects and proof
- System descriptions

Overall, ten papers were submitted to the workshop each being reviewed by at least three members of the programme committee. The quality of the submissions was extraordinary high. Nine of them have been presented at the workshop and selected for publication in this special issue.

We are grateful to the organizers of FLOC10 for their collaboration and help with respect to the organization of UITP10 in Edinburgh. In the managing of the whole reviewing process, Andrei Voronkovs EasyChair conference management system proved an excellent tool.

UITP Organization

Local Organization

David Aspinall, University of Edinburgh, Scotland

Programme Committee

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